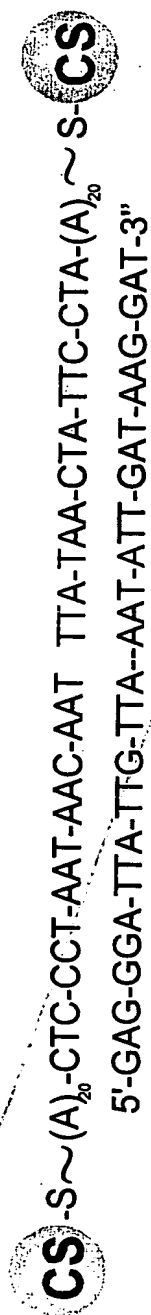
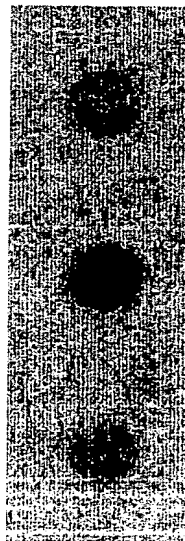


Fig. 1

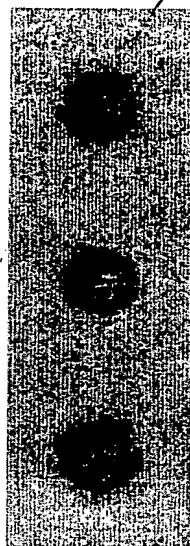


A

I II III I II III



B



C

Fig. 2

# UV-Vis spectra of Pt and Pt/Au coreshell nanoparticles

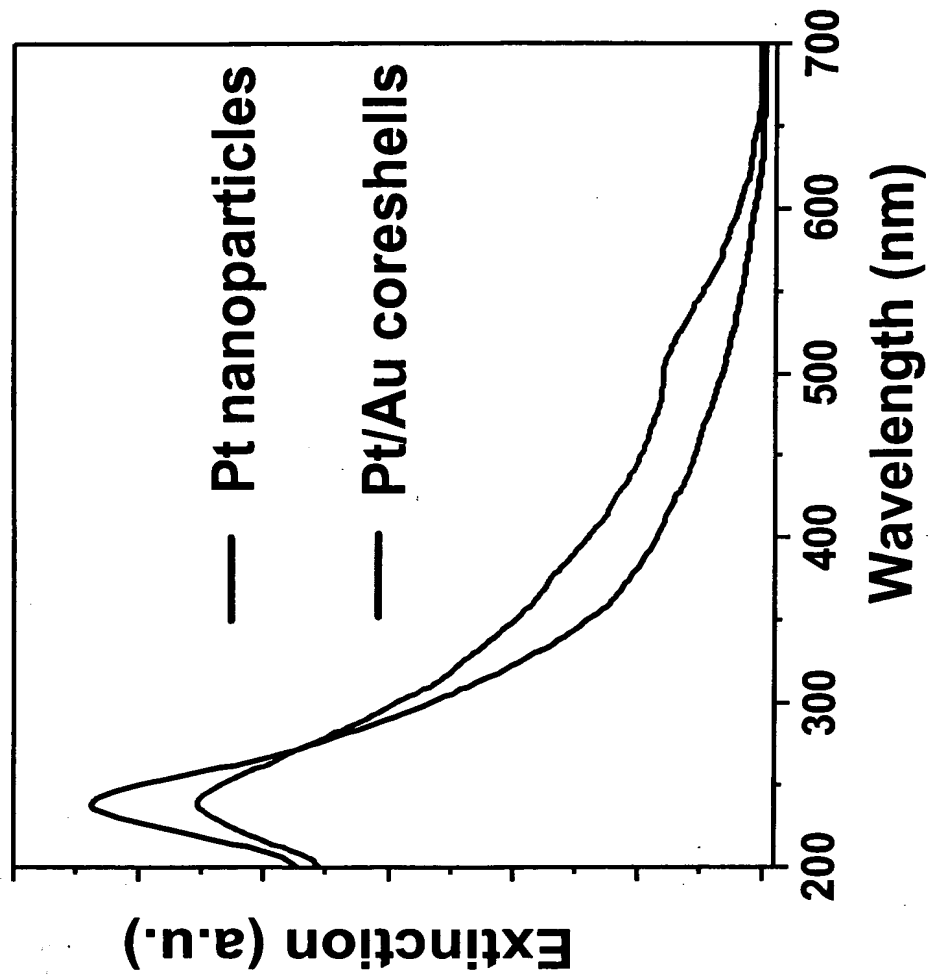


Fig. 3

# Growth of Au on the surface of Fe<sub>3</sub>O<sub>4</sub> nanoparticles

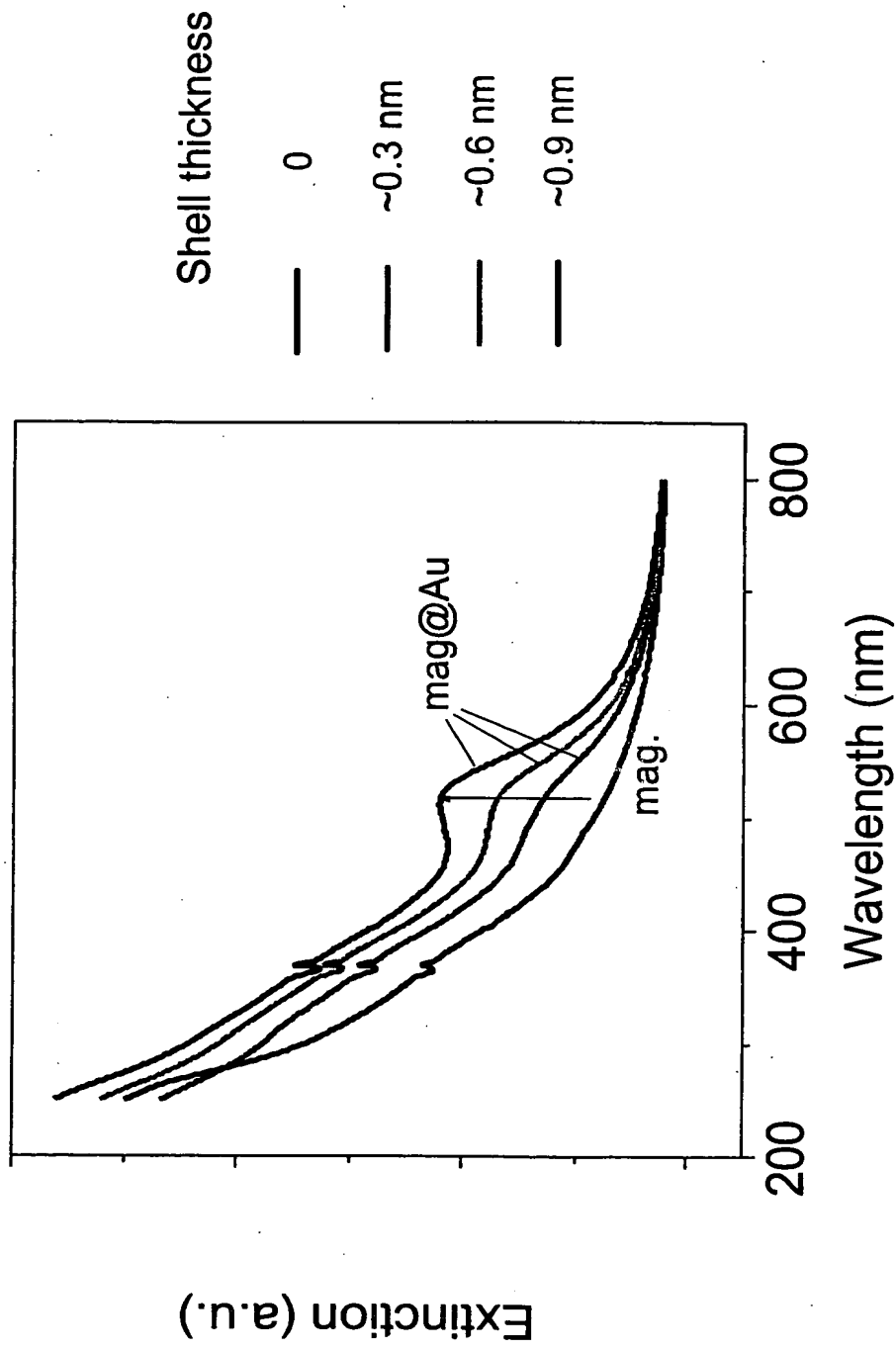


Fig. 4

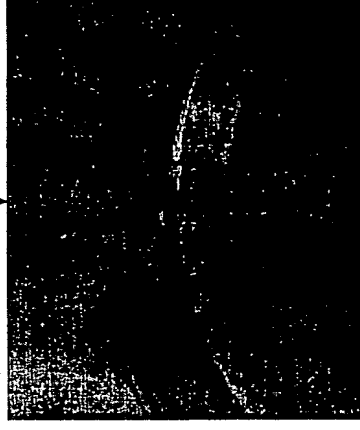
## Magnetic properties of gold coated $\text{Fe}_3\text{O}_4$ nanoparticles

magnet



Without a magnetic field

With the color of  
gold nanoparticles



In a magnetic field for 12 hrs

Colorless

Fig. 5



Fig. 7

